

ATGTCCCAGAAACAAGAAGAAGAAAACCCTGCGGAGGAGACCGGCGAGGAGAAGCAGGATACACAGG  
 AGAAAGAAGGGATTCTCCCTGAGAAAGCTGAGGAGGCAAAGCTAAAGGCCAAATACCCAAGCCTAGG  
 ACAAAGCCTGGAGGCTCCGACTTCCTCATGAAGAGACTCCAGAAAGGGCAAAAGTACTTTGACTCA  
 GGAGACTACAACATGGCCAAAGCCAAGATGAAGAACAAGCAGCTGCCAAGTGCAGGAGCAGACAAGA  
 ACCTGGTGACCGGTGACCACATCCCCACCCACAGGATCTGCCCCAGAGAAAGTCCTCGCTCGTCAC  
 CAGCAAGCTTGCGGGTGGCCAAGTTGAATGA (SEQ ID NO:1)

MSQKQEEENPAEETGEEKQDTQEKEGILPEKAEKAKYPSLGQKPGGSDFLMKRLQKGQKYFDS  
 GDYNMAKAKMKNKQLPSAGADKNLVTGDHIPTQDLPQRKSSLVTSKLAGGQVE (SEQ ID  
 NO:2)

MSQKQEEENPAEETGEEKQDTQEKEGILPERAEKAKYPSLGQKPGGSDFLMKRLQKGQKYFDS  
 GDYNMAKAKMKNKQLPSAGPDKNLVTGDHIPTQDLPQRKSSLVTSKLAGGQVE (SEQ ID  
 NO:3)

MSQKQEEENP AEETGEEKQD TQEKEGILPE RAEKAK YPSLGQKPGG SDFLMKRLQK  
 GQKYFDSGDY NMAKAKMKNK QLPSAGPDKN LVTGDHIPTP QDLPQRKSSL VTSKLAG (SEQ  
 ID NO:4)

FIGURE 1

TCGGTTAAAAACGTCACGGGCTTGAGCCGCCATTTTGACTGAGCAACCATAGTGATAGGA  
GCCGTAGCATTAGCTCAGGTTGT (SEQ ID NO:5)

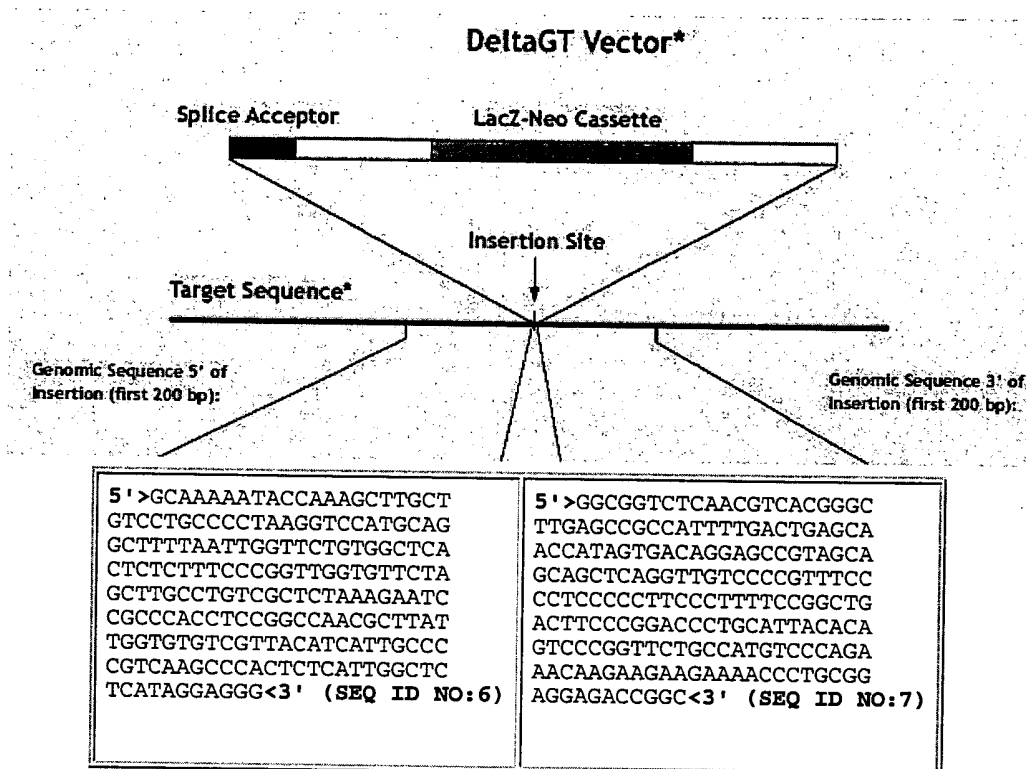


FIGURE 2

# $\alpha$ -endosulfine

## Glucose Stimulated Insulin Secretion Test

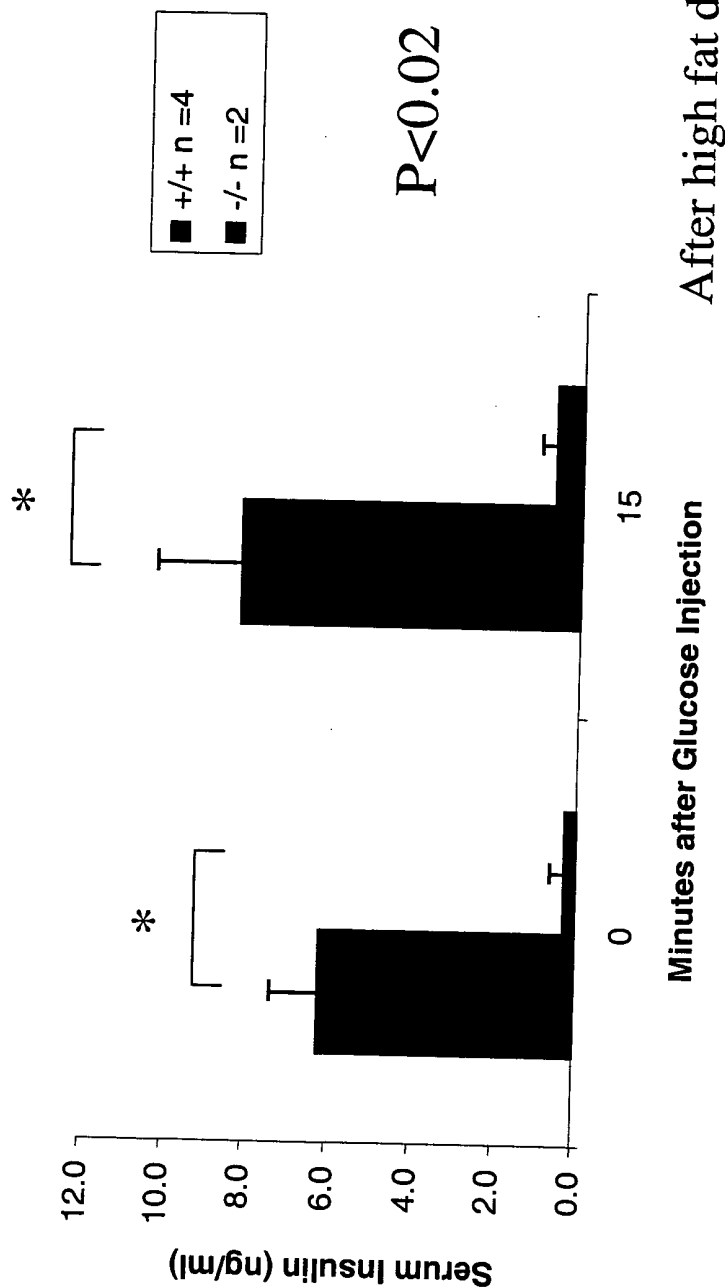


FIGURE 3

# $\alpha$ -endosulfine

## Glucose Tolerance Test (I.P.)

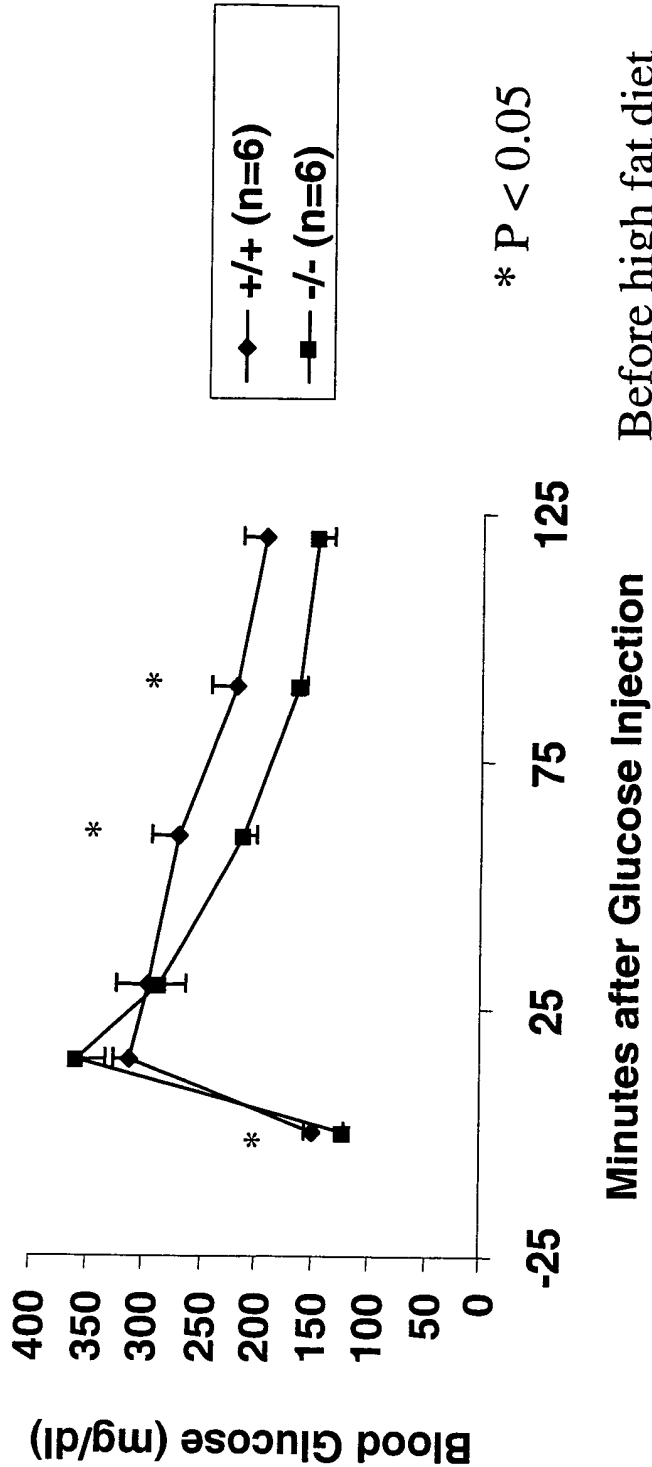
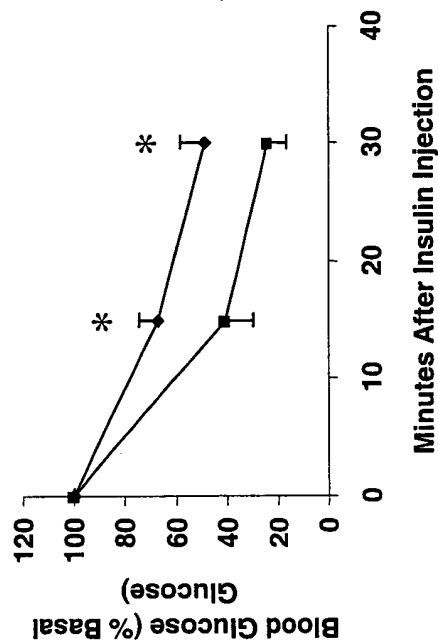


FIGURE 4

# $\alpha$ -endosulfine

## Insulin Suppression Test

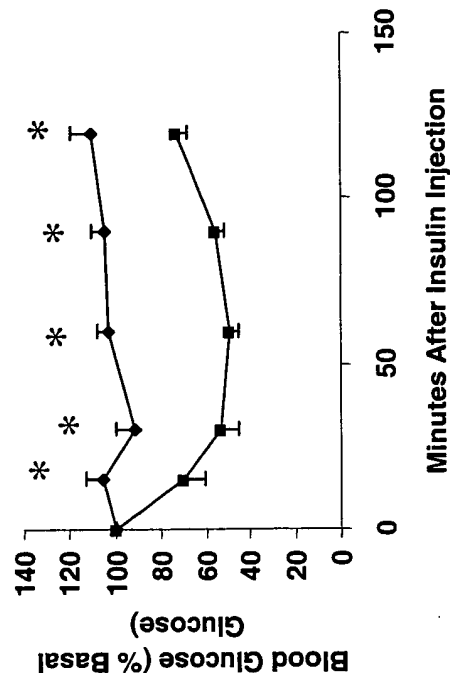


Insulin 1.0 U/kg

FIGURE 5A

Mice from both  
chow group and  
high fat diet group

\*  $P < 0.02$

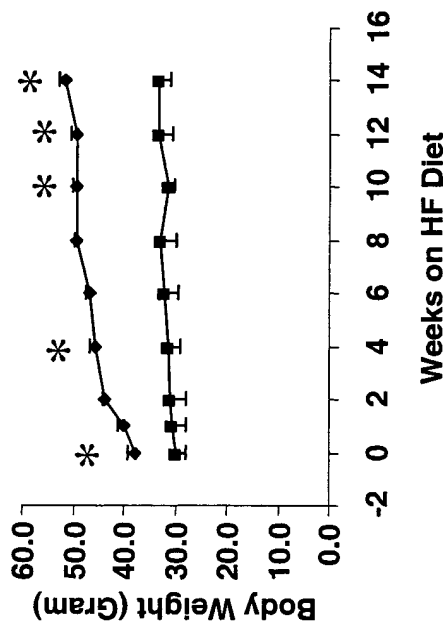


Insulin 0.5 U/kg

FIGURE 5B

# $\alpha$ -endosulfine

Body Weight After High Fat Diet



Body Weight Gain After High Fat Diet

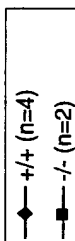
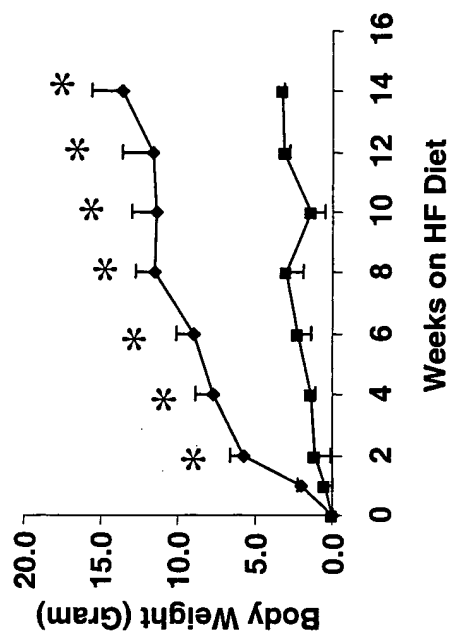
\*  $P < 0.05$ 

FIGURE 6A

FIGURE 6B

# $\alpha$ -endosulfine

Accumulated HF Diet consumption

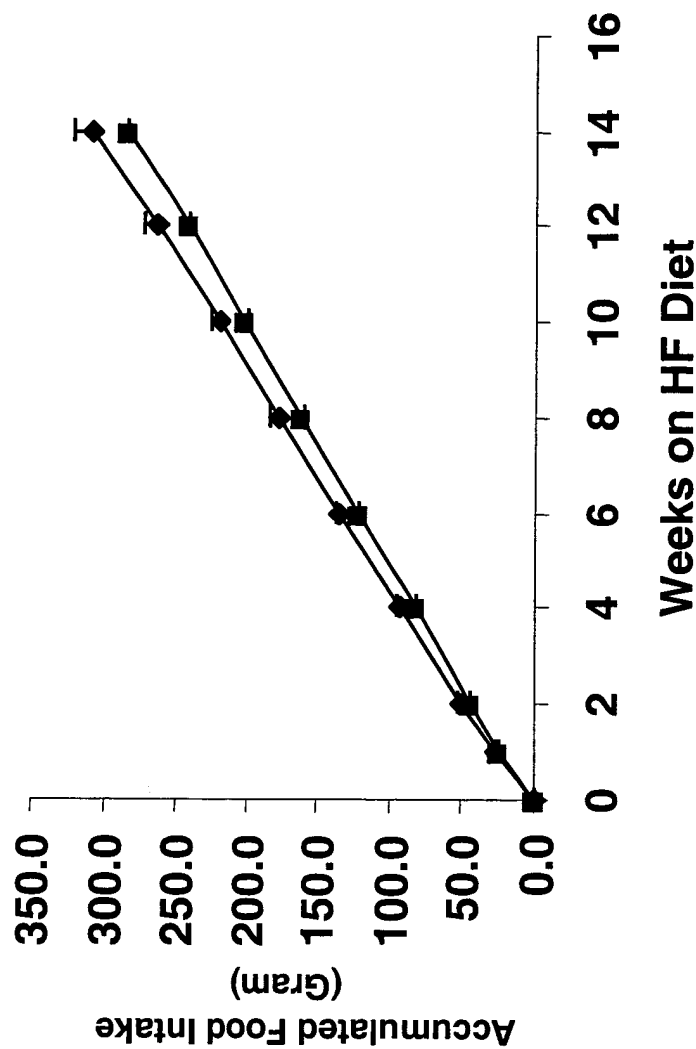


FIGURE 7

# Open Field Summary Data - Distance Travelled

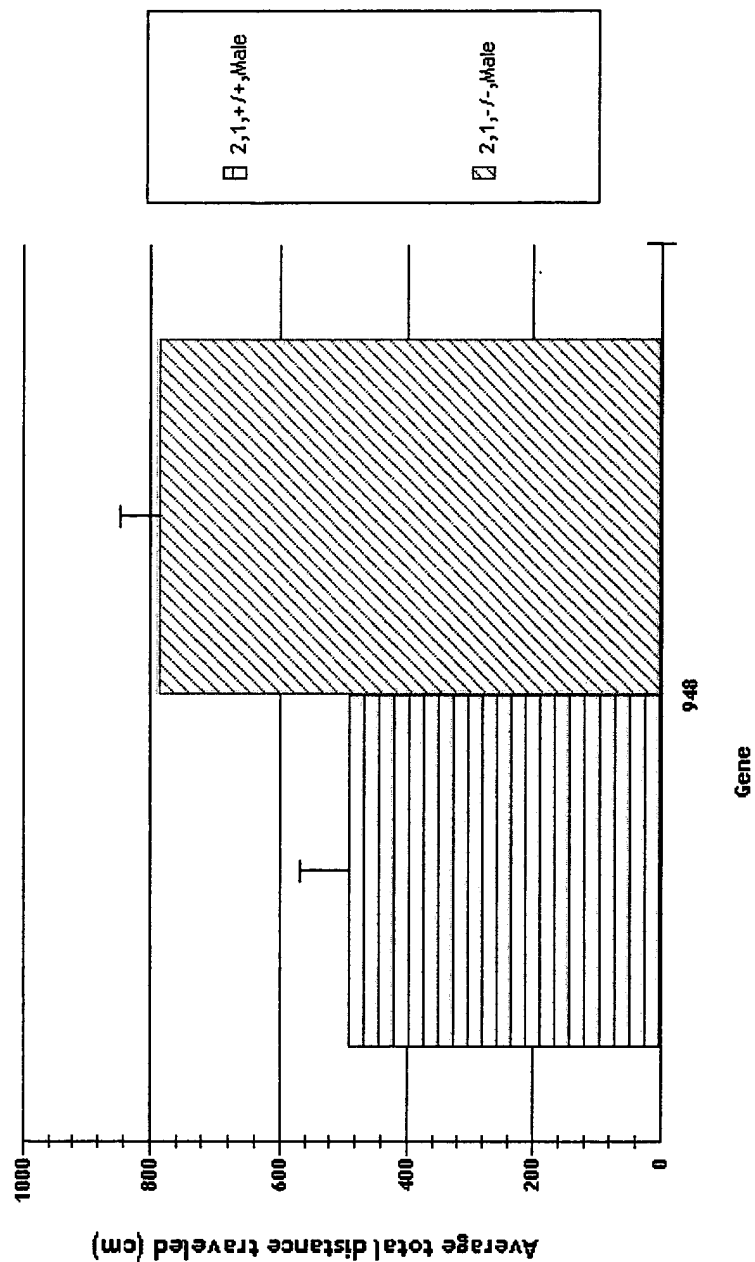


FIGURE 8